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S12 4	1	geographical adj tag	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/28 10:09
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S13 5	24	"5860064"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/01 13:22
S13 6	47	"5818447"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/01 13:22
S13 7	6	(("5860064") or ("5818447") or ("6405225")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/01 13:23
S13 8	6	(("5860064") or ("6064383") or ("6507643")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/02 07:39

	1	Document ID	Issue Date	Title	Current OR	Inventor
1		US 200501049 76 A1	20050519	System and method for applying inference information to digital camera metadata to identify digital picture content	348/231.5	Currans, Kevin
15		US 6873905 B2	20050329	Communication s type navigation device	701/202	Endo; Yoshinori et al.

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Relevance scale

1 Multimedia document presentation, information extraction, and document formation in MINOS: a model and a system

S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria
December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Full text available: [pdf\(3.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

2 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: [pdf\(5.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Web technologies and applications (WTA): Using XML and related standards to support Location Based Services

Anastasios Ioannidis, Manos Spanoudakis, Panos Sianas, Ioannis Prigouris, Stathis Hadjiefthymiades, Lazaros Merakos
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: [pdf\(270.83 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Location Based Services can be considered as the most rapidly expanding field of the mobile communications sector. The proliferation of the mobile/wireless Internet, the constantly increasing use of handheld, mobile devices and positioning technologies and the emergence of mobile computing, prepared the grounds for the introduction of this new type of services with impressively large application domain and use range. The combination of position fixing mechanisms with location-dependent, geograph ...

Keywords: Web Services, XML, location based Services

5 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available: [pdf\(213.89 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

6 Building a digital library: the Perseus project as a case study in the humanities

Gregory Crane

April 1996 **Proceedings of the first ACM international conference on Digital libraries**

Full text available: [pdf\(975.58 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Adding animated presentation agents to the interface

Thomas Rist, Elisabeth André, Jochen Müller

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Full text available: [pdf\(1.37 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: animated user interface agents, automated multimedia authoring, presentation techniques for web applications

8 Guiding the user through dynamically generated hypermedia presentations with a life-like character

Elisabeth André, Thomas Rist, Jochen Müller

January 1997 **Proceedings of the 3rd international conference on Intelligent user interfaces**

Full text available: [pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: automated presentation of information, hypermedia generation, life-like characters

9 Towards an active network architecture

David L. Tennenhouse, David J. Wetherall

April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2

Full text available: [pdf\(1.58 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Active networks allow their users to inject customized programs into the nodes of the network. An extrer case, in which we are most interested, replaces packets with "capsules" - program fragments that are executed at each network router/switch they traverse. Active architectures permit a massive increase in t sophistication of the computation that is performed within the network. They will enable new applications especially those based on application-specific multicast, information fusion, a ...

10 Development of meta databases for geospatial data in the WWW

Stefan Göbel, Karen Lutze

November 1998 **Proceedings of the 6th ACM international symposium on Advances in geographic information systems**

Full text available: [pdf\(711.20 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: catalogue system, geospatial data, information retrieval, metadata, metadata information system

11 Surfing the net for software engineering notes: Surfing the net for software engineering notes

Mark Doernhoefer

May 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

Full text available: [pdf\(1.47 MB\)](#)

Additional Information: [full citation](#)

12 Asynchronous information space analysis architecture using content and structure-based service brokering

Ke-Thia Yao, In-Young Ko, Ragy Eleish, Robert Neches

June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: [pdf\(470.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our project focuses on rapid formation and utilization of custom collections of information for groups focused on high-paced tasks. Assembling such collections, as well as organizing and analyzing the documents within them, is a complex and sophisticated task. It requires understanding what information management services and tools are provided by the system, when they appropriate to use, and how those services can be composed together to perform more complex analyses. This paper describes ...

Keywords: asynchronous service access, component architecture, content and structure, data-driven brokering, information analysis, information management, metadata

13 Modelling geospatial application databases using UML-based repositories aligned with international standards in geomatics

Jean Brodeur, Yvan Bédard, Marie-Josée Proulx

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Full text available: [pdf\(736.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents the result of recent work on the use of geospatial repositories to store the conceptual content of object oriented application database schemas and dictionaries aligned with international standards in geographic information (ISO/TC 211 and OGC). According to software engineering and database concepts, a geospatial repository can be defined as a collection of (meta) data structured in a manner to provide information about the semantics, geometry, temporality, and the integr ...

Keywords: ISO/TC 211, OGC, UML, feature catalogue, geographic information standard, geospatial database modelling, geospatial repository, interoperability, metadata, perceptor

14 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Full text available: [!\[\]\(5ebcf382a6ee952d6c5b8b948415801e_img.jpg\) pdf\(1.63 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

15 CMIFed: a transportable hypermedia authoring system

Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available: [!\[\]\(147b0c7dce349edf02b6b21226344f99_img.jpg\) pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 STARTS: Stanford proposal for Internet meta-searching

Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available: [!\[\]\(41959a55675a4cf6a0c75249945ddd26_img.jpg\) pdf\(1.53 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

17 VIKI: spatial hypertext supporting emergent structure

Catherine C. Marshall, Frank M. Shipman, James H. Coombs

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Full text available: [!\[\]\(c44c1590e4070d8cc0b28ab85cb00ddf_img.jpg\) pdf\(1.43 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emergent nature of structure is a crucial, but often ignored, constraint on authoring hypertexts. VIKI is a spatial hypertext system that supports the emergent qualities of structure and the abstractions that guide its creation. We have found that a visual/spatial metaphor for hypertext allows people to express the nuances of structure, especially ambiguous, partial, or emerging structure, more easily. VIKI supports interpretation of a collected body of materials, a task that becomes inc ...

Keywords: composites, emergent structure, interpretation, spatial hypertext, visual structure recognition

18 User interface software tools

Brad A. Myers

March 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 1

Full text available: [!\[\]\(98bb08df93fc4579a442231cac5e0302_img.jpg\) pdf\(3.25 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Almost as long as there have been user interfaces, there have been special software systems and tools to help design and implement the user interface software. Many of these tools have demonstrated significant productivity gains for programmers, and have become important commercial products. Others have proved less successful at supporting the kinds of user interfaces people want to build. This article discusses the different kinds of user interface software tools, and investigates why some ...

Keywords: interface builders, toolkits, user interface development environments, user interface software

19 IP next generation overview

Robert M. Hinden

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available: [pdf\(610.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

20 Geospatial mapping and navigation of the web

Kevin S. McCurley

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: browsers, geographic information systems, geospatial information retrieval, navigation

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 Relevance scale
21 Ubiquitous hypermedia: Integrating the web and the world: contextual trails on the move

Frank Allan Hansen, Niels Olof Bouvin, Bent G. Christensen, Kaj Grønbæk, Torben Bach Pedersen, Jevgenij Gagach

August 2004 Proceedings of the fifteenth ACM conference on Hypertext & hypermedia

 Full text available: [pdf\(3.41 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents applications of HyCon, a framework for context aware hypermedia systems. The HyCon framework encompasses annotations, links, and guided tours associating locations and RFID- or Bluetooth-tagged objects with maps, Web pages, and collections of resources. The user-created annotations, links and guided tours, are represented as XLink structures, and HyCon introduces the use of XLink for the representation of recorded geographical paths with annotations and links. The HyCon archi

Keywords: SVG, XLink, context aware hypermedia, open hypermedia
22 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

 June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

 Full text available: [pdf\(4.87 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
23 Managing images: Geographic location tags on digital images

Kentaro Toyama, Ron Logan, Asta Roseway

November 2003 Proceedings of the eleventh ACM international conference on Multimedia

 Full text available: [pdf\(1.97 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and critically, location stamp. The location where a photo was shot is important because it says much about its semantic content, while being relatively easy to acquire index, and search. The process of building, browsing, and writing applications for ...

Keywords: GIS, digital photography, geographic interfaces, image databases
24 Multidimensional access methods

Volker Gaede, Oliver Günther

 June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available: [pdf\(1.05 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

25 Semantic web applications: CS AKTive space: representing computer science in the semantic web

m. c. schraefel, Nigel R. Shadbolt, Nicholas Gibbins, Stephen Harris, Hugh Glaser

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: [pdf\(346.31 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a Semantic Web application that we call CS AKTive Space. The application exploits a wide range of semantically heterogeneous and distributed content relating to Computer Science research in the UK. The content is gathered on a continuous basis using a variety of methods including harvesting and scraping as well as adopting a range of models for content acquisition. The content currently comprises around ten million RDF triples and we have developed storage, retrieval and maintenance methods ...

Keywords: ontologies, semantic web, semantic web challenge groups

26 Overlay networking: Efficient and flexible parallel retrieval using priority encoded transmission

Ramaprabhu Janakiraman, Lihao Xu

June 2004 **Proceedings of the 14th international workshop on Network and operating systems support for digital audio and video**

Full text available: [pdf\(116.46 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many applications, including web transfers, software distribution, video-on-demand, and peer-to-peer data downloads, require the retrieval of structured documents consisting of multiple components like images, video, and text. Large systems using these applications may be made more scalable by using efficient data distribution techniques like multicast, and by enabling clients to retrieve data from multiple servers in parallel. In this paper we propose a new technique for parallel retrieval of st ...

Keywords: fountain codes, parallel download, peer-to-peer

27 GML, Interoperability, and Standards: WMS and GML based interoperable web mapping system

Shashi Shekhar, Ranga Raju Vatsavai, Namita Sahay, Thomas E. Burk, Stephen Lime

November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**

Full text available: [pdf\(1.65 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Recently the World Wide Web has become a popular vehicle for information distribution and web based geographic information systems (GIS) are rapidly evolving and adapting to these new environments. The main hindrance for building true interoperable distributed geographic information systems is the lack of any standard exchange mechanism between the diverse GISes connected over the web. Recent efforts by the OpenGIS Consortium have resulted in several specifications to alleviate these problems. ...

Keywords: DOM, DTD, GIS, GML, SAX, WMS, XML Schema, XSLT

28 Poster session: Spatial information retrieval and geographical ontologies an overview of the SPIRIL project

Christopher B. Jones, R. Purves, A. Ruas, M. Sanderson, M. Sester, M. van Kreveld, R. Weibel

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: [pdf\(109.80 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

29 Replication for web hosting systems

Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen

September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Full text available: [pdf\(374.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduce client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced <i>Web replica hosting systems</i>. These are systems that ...

Keywords: Web replication, content delivery networks

30 Mobile computing: DataMan project perspective

Tomasz Imielinski

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Full text available: [pdf\(239.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The objective of mobile computing is to develop system and application level software for small, battery powered terminals equipped with the wireless network connection. There is a rapidly growing interest in this field with companies spending billions of dollars developing technology and buying spectrum in the recent PCS auctions. In this paper we offer a perspective of mobile computing from the standpoint of our own research project at Rutgers University. The DataMan project (T.Imielinski ...

31 A scalable location service for geographic ad hoc routing

Jinyang Li, John Jannotti, Douglas S. J. De Couto, David R. Karger, Robert Morris

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: [pdf\(1.28 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

GLS is a new distributed location service which tracks mobile node locations. GLS combined with geographic forwarding allows the construction of ad hoc mobile networks that scale to a larger number of nodes than possible with previous work. GLS is decentralized and runs on the mobile nodes themselves, requiring no fixed infrastructure. Each mobile node periodically updates a small set of other nodes (its location servers) with its current location. A node sends its position updates to its l ...

32 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debatty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: [pdf\(248.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

33 Distributed data sources: Exploiting online sources to accurately geocode addresses

Rahul Bakshi, Craig A. Knoblock, Snehal Thakkar

November 2004 Proceedings of the 12th annual ACM international workshop on Geographic information systems

Full text available: [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many Geographic Information System (GIS) applications require the conversion of an address to geographic coordinates. This process is called geocoding. The traditional geocoding method uses a street vector data source, such as, Tigerlines, to obtain address range and coordinates of the street segment or which the given address is located. Next, an approximation technique is used to estimate the location of the given address using the address range of the selected street segment. However, this ...

Keywords: geocoder, geospatial data integration, information integration, mediator

34 The feasibility of supporting large-scale live streaming applications with dynamic application end-points

Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs, Hui Zhang

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 34 Issue 4

Full text available: [pdf\(461.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While application end-point architectures have proven to be viable solutions for large-scale distributed applications such as distributed computing and file-sharing, there is little known about its feasibility for more bandwidth-demanding applications such as live streaming. Heterogeneity in bandwidth resources and dynamic group membership, inherent properties of application end-points, may adversely affect the construction of a usable and efficient overlay. At large scales, the problems become ...

Keywords: application-level multicast, live streaming, overlay multicast, peer-to-peer

35 G2ST: a novel method to transform GML to SVG

Zhimao Guo, Shuigeng Zhou, Zhengchuan Xu, Aoying Zhou

November 2003 **Proceedings of the 11th ACM international symposium on Advances in geographic information systems**

Full text available: [pdf\(204.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Geography Markup Language (GML) has been adopted as *de facto* standard for geo-referenced information storing and exchanging, while Scalable Vector Graphics (SVG), also a W3C-recommended XML standard, appearing as an ideal format for rendering maps. Usually, Extensible Stylesheet Language Transformation (XSLT) is used to transform GML documents to SVG documents. Considering the complexity and variety of GML documents, however, designing XSLT rules is not an easy task; even worse, such a ...

Keywords: GML, SVG, transforming language

36 Object-based and image-based object representations

Hanan Samet

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An overview is presented of object-based and image-based representations of objects by their interiors. The representations are distinguished by the manner in which they can be used to answer two fundamental queries in database applications: (1) Feature query: given an object, determine its constituent cells (i.e., their locations in space). (2) Location query: given a cell (i.e., a location in space), determine the identity of the object (or objects) of which it is a member as well as the re ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), image space location query, object space, octrees, pyramids, quadtrees, space-filling curves, spatial databases

37 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

38 GPS-based geographic addressing, routing, and resource discovery

Tomasz Imieński, Julio C. Navas

April 1999 **Communications of the ACM**, Volume 42 Issue 4

Full text available: [pdf\(329.24 KB\)](#) [html\(32.72 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

39 Quality of service: Towards context-aware adaptable web services

Markus Keidl, Alfons Kemper

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available: [pdf\(142.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a context framework that facilitates the development and deployment of context-aware adaptable Web services. Web services are provided with context information about clients that may be utilized to provide a personalized behavior. Context is extensible with new types of information at any time without any changes to the underlying infrastructure. Context processing is done by Web services, context plugins, or context services. Context plugins and context services pre- a ...

Keywords: automatic context processing, context, extensibility, extensible framework, information services, service platform, web services

40 Linguistic resource creation for research and technology development: A recent experiment

Stephanie Strassel, Mike Maxwell, Christopher Cieri

June 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 2

Full text available: [pdf\(186.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advances in statistical machine learning encourage language-independent approaches to linguistic technology development. Experiments in "porting" technologies to handle new natural languages have revealed a great potential for multilingual computing, but also a frustrating lack of linguistic resources for most languages. Recent efforts to address the lack of available resources have focused either on intensive resource development for a small number of languages or development of technologies fo ...

Keywords: Cebuano, Hindi, Machine translation, crosslanguage, information extraction, information retrieval, language parsing and understanding, linguistic resources, machine translation, summarization, text analysis, translingual information access technology

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1 [Pen computing: a technology overview and a vision](#)

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3Full text available: [pdf\(5.14 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set will be analyzed and put into context with other emerging technologies and visions. Starting with a short l

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collabor**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-tim used to obtain a better understanding of the execution of the application. The visualization tool we use is developed at the University of Waterloo. However, these diagrams are often very complex and do not pr desired overview of the application. In our experience, such tools display repeated occurrences of non-tri

3 [Building a digital library: the Perseus project as a case study in the humanities](#)

Gregory Crane

April 1996 **Proceedings of the first ACM international conference on Digital libraries**Full text available: [pdf\(975.58 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
4 [STARTS: Stanford proposal for Internet meta-searching](#)

Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conferen of data**, Volume 26 Issue 2Full text available: [pdf\(1.53 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document sources are available everywhere, both within the internal networks of organizations and on th individual organizations use search engines from different vendors to index their internal document collect engines are typically incompatible in that they support different query models and interfaces, they do not information with the query results for adequate merging of the results, and finally, in that they do not ex t ...

5 [People, places, things: web presence for the real world](#)

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: [pdf\(248.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these op infrastructure to support "web presence" for people, places and things. We put web servers into things li information into web servers about things like artwork; we group physically related things into places em Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computir

6 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: [pdf\(636.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into The clustering problem has been addressed in many contexts and by researchers in many disciplines; thi appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult p combinatorially, and differences in assumptions and contexts in different communities has made the tran co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, sir unsupervised learning

7 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Approximate spatio-temporal retrieval

Dimitris Papadias, Nikos Mamoulis, Vasilis Delis

January 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 1

Full text available: [pdf\(481.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a framework for the handling of spatio-temporal queries with inexact matches, using relation similarity. We initially describe a binary string encoding for 1D relations that permits the automatic similarity measures. We then extend this model to various granularity levels and many dimensions, and the spatio-temporal structure is significantly facilitated in the new framework. Finally, we provide algorithms

9 Complementary video and audio analysis for broadcast news archives

Howard D. Wactlar, Alexander G. Hauptmann, Michael G. Christel, Ricky A. Houghton, Andreas M. Olligschla

February 2000 **Communications of the ACM**, Volume 43 Issue 2

Full text available: [pdf\(306.49 KB\)](#) [html\(24.06 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model ci guidelines for undergraduate degree programs in information systems**, Volume 28 Issue

Full text available: [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

11 Special section: Special issue on AI and Database research

Jonathan J. King

October 1983 **ACM SIGART Bulletin**, Issue 86

Full text available:  pdf(3.84 MB)

Additional Information: [full citation](#), [abstract](#)

This collection of research summaries spans a very wide range of interests under the general heading of research. In this introduction, I briefly describe the leading areas of interest that emerge from the report issue.

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